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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/873,287	06/05/2001	Tomio Sugiyama	2635-16	4759
	590 11/16/2004 ANDERHYE, PC		EXAMINER	
1100 N GLEBE ROAD 8TH FLOOR			OLSEN,	
	, VA 22201-4714		1753	PAPER NUMBER
			DATE MAILED: 11/16/2004	ļ

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action 0W873,287 SUSYAMA, TOMIO		Application No.	Applicant(s)				
Examinor The RRPLY FILED 26 October 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a limited from funder 37 CFR 1.113 may going be either: (1) a timely filed amendment which places the application in condition for allowance: (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compiliance with 37 CFR 1.114. PERIOD FOR REPLY [check either a) or b)] a) The period for reply expires 3. months from the mailing date of the final rejection. b) The period for reply expires 3. months from the mailing date of the final rejection. Only CHECK This BOWNFIN THE RIFTS REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP Continued Expired for reply expires on: (1) the mailing date of the final rejection. Only CHECK The BOWNFIN THE RIFTS REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP Continued of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposes of determining the period of the shade for purposed of the	Advisory Action						
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9.☐ Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)	3.∐ The drawing correction filed on is a) approved or b) disapproved by the Examiner.						
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DETAILED ACTION

Response to Arguments

- 1. Applicant's amendment of 10-26-2004 has been entered. Claims 1-6 remain rejected for the same reasons that claims 1-6 and 13 were previously rejected.
- 2. Applicant urges that Mase '693 does not teach the use of yttria. This is incorrect. See col. 11, line 66.
- Applicant also urges that Radford teaches away from silica when the stabilizer is yttria. However, the passage of Radford that the applicant is referring to only sets forth specific examples of combinations of stabilizer and sintering aid, and those specific examples did not include silica with yttria. Just because Radford teaches using a different combination of stabilizer and sintering aid does not mean other combinations of stabilizer and sintering aid are not obvious. Radford discloses a short list of stabilizers (with yttria and calcia being especially preferred (col. 2, lines 58-60)) and a short list of sintering aids. A particular combination from these two lists (absent specific teachings against any particular combination) requires only routine skill in the art.
- 4. With respect to Kobayashi, applicant urges that because Kobayashi teaches adhering the electrolyte to the alumina body, a crystal phase of silicon dioxide does not exist. It is unclear how applicant came to this conclusion merely by Kobayashi's reference to an adherence of the two devices (couldn't the adherence be because of the formation of a boundary layer?). Please clarify how this discussion by Kobayashi refutes the rejection at all. By applicant's own admittance, SiO2 present in the electrolyte liquefies to form a boundary layer (see p. 5, lines 12-17). Hence, if the prior art renders obvious the addition of SiO2 to the electrolyte (as Kobayashi

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and Radford do) then one would expect a boundary layer of SiO2 to form. It has been well settled that a patent cannot be granted for an applicant's discovery of a result, even though it may have been unexpectedly good, which would flow logically from the teaching of the prior art.

5. With respect to Hayakawa, applicant urges that one wouldn't have looked to Hayakawa for a teaching of adding SiO2 to an electrolyte. However, the point isn't that one wouldn't have added SiO2 to an electrolyte, but rather that SiO2 is present in conventional zirconia starting materials (like those utilized by Hayakawa) and those starting materials can still provide electrolytes with good mechanical properties. Applicant appears to be implying that because Mase didn't mention the presence of SiO2, it must not be present. This does not follow. The electrolyte of Mase could have had impurities and Mase and either did not discuss it or know it. The point of Hayakawa is that zirconia having SiO2 impurities can still provide an electrolyte with good mechanical properties.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kaj Olsen whose telephone number is (571) 272-1344. The examiner can normally be reached on Monday through Thursday from 5:30 A.M. to 3:00 P.M. and on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen, can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent
Application Information Retrieval (PAIR) system. Status information for published applications
may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AU 1753 November 12, 2004

> KAJ K. OLSEN PRIMARY EXAMINER